

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES A PHASING MODIFICATION TO THE US 1 LEFT TURNS MOVEMENTS AT THE EXISTING TRAFFIC CONTROL SIGNAL OF US 1 (HICKORY BYPASS) AND MD 543 (FOUNTAIN GREEN ROAD) IN HARFORD COUNTY.

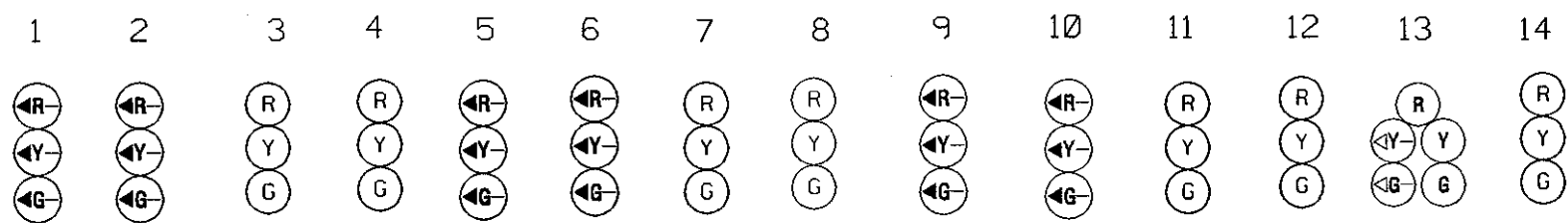
US 1 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION SHALL OPERATE IN A NEMA (8) EIGHT PHASE, FULL-TRAFFIC-ACTUATED MODE, WITH SINGLE EXCLUSIVE LEFT TURNS FOR BOTH APPROACHES OF US 1. THE LEFT TURN SIGNAL HEADS SHALL FLASH RED FROM 10:00 P.M. TO 5:00 A.M.. THE THROUGH MOVEMENTS SHALL OPERATE CONCURRENTLY. MD 543 THROUGH MOVEMENTS OPERATE CONCURRENTLY. THE NORTHBOUND APPROACH OF MD 543 OPERATES AS A DOUBLE EXCLUSIVE LEFT TURNS AND THE SOUTHBOUND APPROACH OPERATES AS AN EXCLUSIVE/PERMISSIVE LEFT TURN.

THE EXISTING NEMA BASE-MOUNTED CABINET SHALL BE MAINTAINED. THE CONTROLLER SHALL BE MODIFIED AS INDICATED.

PHASE CHART



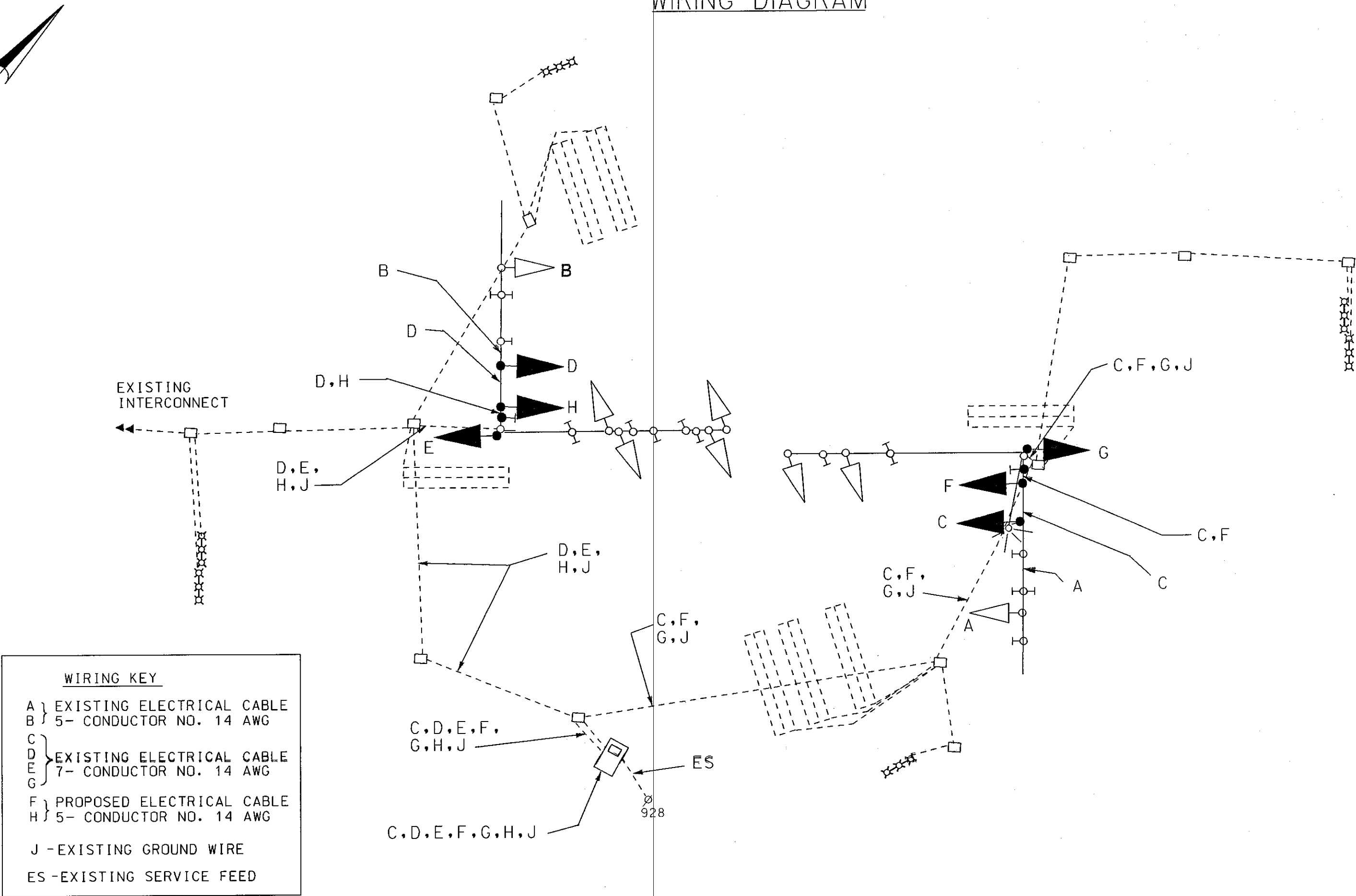
Phase 1 & 5	←G-	←G-	R	R	←G-	←G-	R	R	R	R	R	R	R	R		
Change to phases 1 & 6 or 2 & 5 or 2 & 6																
Phase 1 & 6	←G-	←G-	G	G	←R-	←R-	R	R	R	R	R	R	R	R		
1 change	←Y-	←Y-	G	G	←R-	←R-	R	R	R	R	R	R	R	R		
Phase 2 & 5	←R-	←R-	R	R	←G-	←G-	G	G	R	R	R	R	R	R		
5 change	←R-	←R-	R	R	←Y-	←Y-	G	G	R	R	R	R	R	R		
Phase 2 & 6	←R-	←R-	G	G	←R-	←R-	G	G	R	R	R	R	R	R		
2 & 6 change	←R-	←R-	Y	Y	←R-	←R-	Y	Y	R	R	R	R	R	R		
Phase 3 & 7	←R-	←R-	R	R	←R-	←R-	R	R	←G-	←G-	R	R	←G-	R		
Change to phases 3 & 8 or 4 & 7 or 4 & 8																
Phase 3 & 8	←R-	←R-	R	R	←R-	←R-	R	R	←G-	←G-	G	G	R	R		
8 change	←R-	←R-	R	R	←R-	←R-	R	R	←Y-	←Y-	G	G	R	R		
Phase 4 & 7	←R-	←R-	R	R	←R-	←R-	R	R	←R-	←R-	R	R	←G-	G		
7 change	←R-	←R-	R	R	←R-	←R-	R	R	←R-	←R-	R	R	←Y-	G		
Phase 4 & 8	←R-	←R-	R	R	←R-	←R-	R	R	←R-	←R-	G	G	G	G		
4 & 8 change	←R-	←R-	R	R	←R-	←R-	R	R	←R-	←R-	Y	Y	Y	Y		
Flashing Operation	FL/RA	FL/RA	FL/Y	FL/Y	FL/RA	FL/RA	FL/Y	FL/Y	FL/RA	FL/RA	FL/R	FL/R	FL/R	FL/R		

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE SHA

ITEM	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
9000	1 EA	REMOVE & DISPOSE OF MATERIALS AND EQUIPMENT
9000	450 LF	5-CONDUCTOR NO. 14 AWG ELECTRICAL CABLE
9006	18 EA	12 IN VEHICULAR TRAFFIC SIGNAL HEAD SECTION
9073	18 EA	SIGNAL HARDWAREFOR THREE-SECTION HEAD MAST ARM MOUNTED

WIRING DIAGRAM



CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS - PLANNERS
32 WEST ROAD
TOWSON, MARYLAND 21204

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
US 1 (HICKORY BYPASS) AND
MD 543 (FOUNTAIN GREEN ROAD)

DRAWN BY: EMM	F.A.P. NO.	TS NO. 3854 B	SHEET NO. 2 OF 2
CHECKED BY:	S.H.A. NO.	SF-SIGNALS	
SCALE: NONE	COUNTY: HARFORD	T.I.M.S. NO. 6998	
DATE: 05/20/05	LOG MILE: 12000108.12		